

Data for Review and Comment Prepared 07/21/04

Utility	FKAA				> \
Permit	13-00005-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	17.02	17.15	17.25	17.38	17.51
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other	0.00	0.00	0.00	0.00	0.00
Utilities					
Water Required for Treatment	0.00	2.66	2.67	2.69	2.71
Processes ²					
ASR Losses ³	0.00	0.58	0.58	0.58	0.58
Total Surficial Raw Water	17.02	20.39	20.50	20,65	20.80
Withdrawal Requirements ⁴					

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

³ <u>ASR Losses</u> is an estimate of the excess of water stored vs. water recovered from utility ASR systems. These estimates reflect capacity and utilization patterns that may differ somewhat from current permit and operating procedures. For the FKAA, ASR storage and recovery capacity of 4 mgd was used in developing the estimates.

⁴ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

Utility	Alexander C	orr (WASD)			> \
Permit	13-00017-W				
	2000	2010	2015	2020	2025
Finished Water Demands ¹	172.75	180.27	185.41	190.05	194.77
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other					
Utilities	0.00	0.00	0.00	0.00	0.00
Water Required for Treatment				/	
Processes ²	0.00	27.64	28.41/	/29.10	29.81
ASR Losses ³	0.00	3.96	3.96	3.96	3.96
Total Surficial Raw Water			/		\
Withdrawal Requirements ⁴	172.75	211.87	217.78	223.11	228.54

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

³ <u>ASR Losses</u> is an estimate of the excess of water stored vs. water recovered from utility ASR systems. These estimates reflect capacity and utilization patterns that may differ somewhat from current permit and operating procedures. For the Alexander Orr, ASR storage and recovery capacity of 25 mgd was used in developing the estimates.

⁴ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

Utility	Florida Cit	ty			> \
Permit	13-00029-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	2.55	4.30	5.24	6.08	6.90
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other					
Utilities	0.00	0.00	0.00	0.00	0.00
Water Required for Treatment				/	
Processes ²	0.00	0.65	\0.79/	0.91	1.04
ASR Losses	0.00	0.00	0.00	0.00	0.00
Total Surficial Raw Water					
Withdrawal Requirements ³	2.55	4.95	6.03	6.99	7.94

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

³ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

Utility	WASD-Hia	aleah Presto	n		> \
Permit	13-00037-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	146.67	147.76	149.25	150.60	152.08
Bulk Sales to Other Utilities²	19.91	7.00	7.00	7.00	7.00
Bulk Purchases from Other					
Utilities	0.00	0.00	0.00	0.00	0.00
Water Required for Treatment				/	
Processes ³	0.00	22.32	22.54/	/22.75	22.97
ASR Losses ⁴	0.00	1.03	1.03	1.03	1.03
Total Surficial Raw Water					/
Withdrawal Requirements ⁵	166.58	178.11	179.82	181.38	183.08

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² In 2000 bulk sales are to the City of North Miami and the City of North Miami Beach. From 2010 on the bulk sales are to the City of North Miami.

³ Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

⁴ <u>ASR Losses</u> is an estimate of the excess of water stored vs. water recovered from utility ASR systems. These estimates reflect capacity and utilization patterns that may differ somewhat from current permit and operating procedures. For Hialeah Preston, ASR storage and recovery capacity of 10 mgd was used in developing the estimates.

⁵ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

Utility	REX (WAS	SD-S Dade)			> \
Permit	13-00040-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	6.79	9.70	11.27	12.67	14.04
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other					
Utilities	0.00	0.00	0.00	0.00	0.00
Water Required for Treatment				/	
Processes ²	0.00	1.46	\1.69/	1.90	2.11
ASR Losses	0.00	0.00	0.00	0.00	0.00
Total Surficial Raw Water			/		
Withdrawal Requirements ³	6.79	11.16	12.96	14.57	16.15

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

³ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

Utility	Homestead				> \
Permit	13-00046-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	8.24	13.26	15.91	18.30	20.63
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other					
Utilities	0.00	0.00	0.00	0.00	0.00
Water Required for Treatment				/	
Processes ²	0.00	1.99	2.39/	2.74	3.10
ASR Losses	0.00	0.00	0.00	0.00	0.00
Total Surficial Raw Water					
Withdrawal Requirements ³	8.24	15.25	18.30	21.04	23.73

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

³ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

	T				
Utility	North Mian	mi			> \
Permit	13-00059-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	12.67	12.43	12.36	12.30	12.26
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other					
Utilities ²	-5.24	-7.00	-7.00	-7.00	-7.00
Water Required for Treatment					
Processes ³	0.00	1.86	\1.85/	1.85	1.84
ASR Losses	0.00	0.00	0.00	0.00	0.00
Total Surficial Raw Water			/		/
Withdrawal Requirements ⁴	7.43	7.29	7.21	7.15	7.10

Finished Water Demands include sales to metered customers, unmetered uses and other unaccounted for water losses.
 Bulk purchases are from MDWASAD Hialeah Preston.

³ Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

⁴ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

Utility	North Mia	mi Beach			
Permit	13-00060-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands from					
Surficial	27.28	21.72	21.71	21.70	21.73
Finished Water Demands from					
Floridan	0.00	5.00	5.00	5.00	5.00
Total Finished Water Demands	27.28	26.72	26.71	26.70	26.73

Utility	North Mia	North Miami Beach (Surficial)						
Permit	13-00060-W							
	2000	2010	2015	2020/	2025			
Finished Water Demands ¹	27.28	21.72	21.71	21.70	21.73			
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00			
Bulk Purchases from Other								
Utilities ²	-14.67	0.00	0.00	0.00	0.00			
Water Required for Treatment								
Processes ³	0.00	3.26	3.26	3.26	3.26			
ASR Losses	0.00	0.00	0.00	0.00	0.00			
Total Surficial Raw Water		\						
Withdrawal Requirements	12.61	24.98	24.97	24.96	24.99			

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.
² Bulk purchases are from MDWASAD Hialeah Preston

³ Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

Draft - Utility Demands and Raw Water Withdrawals

Utility	North Mia	mi Beach (F			
Permit	13-00060-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands	0.00	5.00	5.00	5.00	5.00
Water Required for Treatment					
Processes ¹	0.00	1.25	1.25	1.25	1.25
Total Floridan Raw Water					
Withdrawal Requirements	0.00	6.25	6.25	6.25	6.25

¹ To account for the combined effect of reject water and possible use of some of this water for blending, an amount is equal to 25% of the Finished Water Demands to be met from Floridan sources is added to the withdrawal requirements.

Draft - Utility Demands and Raw Water Withdrawals

	T				
Utility	Homestead	l AFB			> \
Permit	13-00068-V	V			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	1.07	2.47	2.45	2.43	2.43
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other					
Utilities	0.00	0.00	0.00	0.00	0.00
Water Required for Treatment					
Processes ²	0.00	0.37	\0.37/	0.37	0.36
ASR Losses	0.00	0.00	0.00	0.00	0.00
Total Surficial Raw Water Withdrawal Requirements ³	1.07	2.84	2.82	2.80	2.79
Trimula trail requirements	1.07	4.01	4.02	2.00	4.17

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

³ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.

Draft - Utility Demands and Raw Water Withdrawals

Utility	Americana	ı Village		\rightarrow	
Permit	13-02004-V	W			
	2000	2010	2015	2020	2025
Finished Water Demands ¹	0.26	0.33	0.37	0.40	0.43
Bulk Sales to Other Utilities	0.00	0.00	0.00	0.00	0.00
Bulk Purchases from Other					
Utilities	0.00	0.00	(0.00/	0.00	0.00
Water Required for Treatment					
Processes ²	0.00	005	0.05	0,06	0.07
ASR Losses	0.00	0.00	0.00	0.00	0.00
Total Surficial Raw Water					
Withdrawal Requirements ³	0.26	0.38	0.42	0.46	0.50

¹ <u>Finished Water Demands</u> include sales to metered customers, unmetered uses and other unaccounted for water losses.

² Beginning in 2010, all utilities are assumed to use nanofiltration to treat surficial water. To account for reject water, an amount is equal to 15% of the Finished Water Demands is added to the withdrawal requirements.

³ Separate estimates for Floridan Aquifer Raw Water Withdrawal Requirements are provided when such use is projected. This utility has not been identified as an existing or expected user of Floridan Aquifer raw water.